


Daniel Molitor

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Education

Cornell University

2022 – 2027 (Expected)

PhD in Information Science (Emphasis in Statistics)

Bethel University

2016 – 2019

B.A. in Mathematics and Economics

Work Experience

Research Improving People's Lives

2019 – 2022

Pre-Doctoral Fellow

- Combined causal inference and machine learning methods to derive occupational ROI metrics and deliver personalized career recommendations.
- Efficiently scaled the DOORS predictive modeling pipeline on AWS, accommodating data sources containing hundreds of millions of rows.
- Developed and maintained R and Python codebases for various internal purposes, including RIPL's occupational ROI metrics and the primary build tool SCons.

Selected Publications

Estimating Value-added Returns to Labor Training Programs with Causal Machine Learning with Mintaka Angell et al. OSF Preprints, 24 Sept. 2021.

Delivering Unemployment Assistance in Times of Crisis: Scalable Cloud Solutions Can Keep Essential Government Programs Running and Supporting Those in Need with Mintaka Angell et al. Digital Government: Research and Practice, vol. 2, no. 1, Jan. 2021, pp. 1–11.

Working Papers and Work-in-Progress

The Causal Effect of Parent Occupation on Child Occupation: A Multivalued Treatment with Positivity Constraints with Jennie Brand and Ian Lundberg. OSF Preprints; SocArXiv Papers, 25 January 2024.

Data-Adaptive Experimentation to Find Contexts with the Most and Least Discrimination with Jennah Gosciak and Ian Lundberg.

Invited Conferences (Including Scheduled)

2024: Conference on Digital Experimentation @ MIT (CODE@MIT), American Sociological Association Annual Meeting (ASA), American Causal Inference Conference (ACIC)

2023: American Sociological Association Annual Meeting (ASA)

Honors, Awards, and Grants

- AWS Cloud Computing Grant ("Data-Adaptive Experiments to Discover Discrimination in Context"), 2024
- 2023-2024 Outstanding Teaching Awards – Cornell Information Science
- National Science Foundation Graduate Research Fellowship
- NBER Pre-doctoral Fellow

Additional Information

Languages: R, Python, Rust, Stata

Technologies: SQL, Docker, Git, Quarto, AWS, Shiny, NextFlow, SCons

Research Interests: Computational Social Science, Causal Inference, Adaptive Experimentation